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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/735,576

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Gregory Robin Price

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10/19/2005

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EXAMINER

TRAN, DALENA

ART UNIT

PAPER NUMBER

3661

DATE MAILED: 10/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/735,576	<b>Applicant(s)</b> PRICE ET AL.	
	<b>Examiner</b> Dalena Tran	<b>Art Unit</b> 3661	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 01 August 2005.
- 2a) ☐ This action is FINAL.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-35 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>8/22/05</u> . | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### Notice to Applicant(s)

1. This office action is responsive to the amendment filed on 8/1/05. As per request, claims 1, 12, and 25 have been amended. Thus, claims 1-35 are pending.

The prior art submitted on 8/22/05 has been considered.

### *Claim Rejections - 35 USC § 103*

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-10, and 12-23, are rejected under 35 U.S.C. 103(a) as being unpatentable over Gvili (5,717,593), in view of Fowler et al. (6,104,979), McClure et al. (6,539,303), and Murphy (6,711,475).

As per claim 1, Gvili discloses an integrated guidance system comprising: a position determination system adapted for determining a current position (see at least column 5, lines 10-25), a lightbar device adapted for providing a visual representation of a deviation of current position from a desired path to guide movement along desired path (see at least columns 5-6, lines 40-56; and column 8, lines 1-57), a data input device for selecting (see at least column 4, lines 10-17; column 6, lines 53-56; and column 7, lines 29-37), and a processor adapted for facilitating user interaction by integrating operation of position determination system, lightbar device, data input device, and display device (see at least column 7, lines 29-67; and column 8, lines 18-57). Gvili does not disclose a display device for displaying text and graphics. However,

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Fowler et al. disclose a display device for displaying text and graphics (see at least the abstract; and columns 3-5, lines 66-22). Gvili also does not disclose a data input device for scrolling, and editing operations. However, McClure et al. disclose a data input device for scrolling operations (see at least column 4, lines 20-28; and column 5, lines 46-47). Also, Murphy discloses a data input device for editing operations (see at least columns 7-8, lines 1-59). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Gvili by combining a display device for displaying text and graphics for easily viewing and interacting by the user for providing navigation guidance, and it would have been obvious to one of ordinary skill in the art to combine a data input device include scrolling and editing operations so the user can manual select a desired parameter in a display screen.

As per claims 2-3, Gvili discloses position determination system comprises a GPS antenna and a GPS receiver, GPS antenna is positioned externally and separately relative to GPS receiver (see at least column 5, lines 10-25).

As per claim 4, Gvili discloses a housing (see at least column 7, lines 38-45).

As per claims 5-6, Gvili discloses lightbar device comprises a plurality of lights that are adapted to emit a light pattern that indicates deviation, wherein plurality of lights are spaced apart and are aligned in a row, and wherein light pattern is formed by selectively illuminating particular ones of plurality of lights (see at least column 8, lines 1-57).

As per claim 7, Gvili discloses plurality of lights comprises a plurality of LED's (see at least column 5, lines 26-40).

As per claims 8-9, Gvili does not disclose data input device comprises a first, second, and third button. However, Fowler et al. disclose data input device comprises a first, second, and

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third button, wherein first, second, and third buttons facilitate interacting with a plurality of available functions displayed on display device (see at least column 3, lines 40-60). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Gvili by combining data input device comprises a first, second, and third button for selecting different available option in the display device.

As per claim 10, Fowler et al. discloses display device displays available functions in a menu driven manner that is user friendly (see at least column 3, lines 20-40).

As per claim 12, Gvili discloses an integrated guidance system comprising: a position determination system adapted for determining a current position (see at least column 5, lines 10-25), a lightbar device adapted for providing a visual representation of a deviation of current position from a desired path to guide movement along desired path (see at least columns 5-6, lines 40-56; and column 8, lines 1-57), a data input device for selecting (see at least column 4, lines 10-17; column 6, lines 53-56; and column 7, lines 29-37), and a processor adapted for facilitating user interaction by integrating operation of position determination system, lightbar device, data input device, and display device (see at least column 7, lines 29-67; and column 8, lines 18-57). Gvili does not disclose a display device for displaying text and graphics. However, Fowler et al. disclose a display device for displaying text and graphics (see at least the abstract; and columns 3-5, lines 66-22), and a user interface system adapted for facilitating user interface by integrating operation of position determination system, lightbar device, data input device, and display device (see at least column 2, lines 1-26). Gvili also does not disclose a data input device for scrolling, and editing operations. However, McClure et al. disclose a data input device for scrolling operations (see at least column 4, lines 20-28; and column 5, lines 46-47). Also,

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Murphy discloses a data input device for editing operations (see at least columns 7-8, lines 1-59).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Gvili by combining a display device for displaying text and graphics for easily viewing and interacting by the user for providing navigation guidance, and it would have been obvious to one of ordinary skill in the art to combine a data input device include scrolling and editing operations so the user can manual select a desired parameter in a display screen.

As per claims 13-14, Gvili discloses position determination system comprises a GPS antenna and a GPS receiver, GPS antenna is positioned externally and separately relative to GPS receiver (see at least column 5, lines 10-25).

As per claim 15, Gvili discloses a housing (see at least column 7, lines 38-45).

As per claims 16-17, Gvili discloses lightbar device comprises a plurality of lights that are adapted to emit a light pattern that indicates deviation, wherein plurality of lights are spaced apart and are aligned in a row, and wherein light pattern is formed by selectively illuminating particular ones of plurality of lights (see at least column 8, lines 1-57).

As per claim 18, Gvili discloses plurality of lights comprises a plurality of LED's (see at least column 5, lines 26-40).

As per claim 19, Fowler et al. discloses user interface system comprises a processor, and processor executable instructions for implementing a user interface (see at least columns 2-3, lines 49-19).

As per claim 20, Gvili does not disclose data input device comprises a first, second, and third button. However, Fowler et al. disclose data input device comprises a first, second, and third button (see at least column 3, lines 40-60). It would have been obvious to one of ordinary

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skill in the art at the time the invention was made to modify the teach of Gvili by combining data input device comprises a first, second, and third button for selecting different available option in the display device.

As per claim 21, Fowler et al. discloses user interface system displays a plurality of available functions on display device (see at least columns 3-5, lines 64-22).

As per claims 22-23, Fowler et al. discloses first, second, and third buttons facilitate interacting with a plurality of available functions displayed on display device, and display device displays available functions in a menu driven manner that is user friendly (see at least column 3, lines 20-60).

As per claims 11, and 24, Gvili does not disclose LCD. However, McClure et al. disclose display device comprises a LCD (see at least column 5, lines 21-56). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Gvili by combining display device comprises a LCD for displaying integrated guidance system.

4. Claims 25-27, and 35, are rejected under 35 U.S.C. 102(b) as being anticipated by Fowler et al. (6,104,979) in view of McClure et al. (6,539,303), and Murphy (6,711,475).

As per claim 25, Fowler et al. disclose a method of interacting with a guidance system, method comprising: displaying on a display device of guidance system a plurality of available functions in a menu-driven manner that is user friendly, wherein display device display is adapted for displaying text and graphics (see at least columns 3-5, lines 64-22); and providing guidance system a data input device adapted for accessing and interacting with any one of available functions with a minimum number of inputs, and with minimum use of inputs (see at

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least column 3, lines 40-60), data input device enables selecting operations (see at least the abstract; column 1, lines 49-55; and columns 3-4, lines 50-30). Fowler et al. do not disclose a data input device for scrolling, and editing operations. However, McClure et al. disclose a data input device for scrolling operations (see at least column 4, lines 20-28; and column 5, lines 46-47). Also, Murphy discloses a data input device for editing operations (see at least columns 7-8, lines 1-59). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Fowler et al. by combining a data input device include scrolling and editing operations so the user can manual select a desired parameter in a display screen.

As per claims 26-27, Fowler et al. disclose data input device comprises a first, second, and third input buttons (see at least column 3, lines 40-60. McClure et al. also disclose data input device comprises a first, second, and third input buttons (see at least column 4, lines 19-38; and column 5, lines 35-56).

As per claim 35, Fowler et al. do not disclose LCD. However, McClure et al. disclose display device comprises a LCD (see at least column 5, lines 21-56). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Fowler et al. by combining display device comprises a LCD for displaying integrated guidance system.

5. Claims 28-34, are rejected under 35 U.S.C. 103(a) as being unpatentable over in view of Fowler et al. (6,104,979), McClure et al. (6,539,303), and Murphy (6,711,475) as applied to claim 25 above, and further in view of Gvili (5,717,593).



As per claim 28, Fowler et al. disclose an integrated guidance system comprising: a position determination system adapted for determining a current position (see at least column 3, lines 40-60). Fowler et al. do not disclose a lightbar device. However, Gvili discloses a lightbar device adapted for providing a visual representation of a deviation of current position from a desired path to guide movement along desired path (see at least columns 5-6, lines 40-56; and column 8, lines 1-57). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Fowler et al. by combining a lightbar device for displaying a position and deviation from a guide path of the navigation system.

As per claims 29-30, Fowler et al. disclose GPS receiver (see at least column 3, lines 40-60). Fowler et al. do not disclose GPS antenna. However, Gvili discloses GPS antenna (see at least column 5, lines 10-25). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Fowler et al. by combining GPS antenna for accurately determine a position of the vehicle.

As per claim 31, Fowler et al. discloses a housing (see at least columns 2-3, lines 49-19).

As per claims 32-33, Gvili discloses lightbar device comprises a plurality of lights that are adapted to emit a light pattern that indicates deviation, wherein plurality of lights are spaced apart and are aligned in a row, and wherein light pattern is formed by selectively illuminating particular ones of plurality of lights (see at least column 8, lines 1-57).

As per claim 34, Gvili discloses plurality of lights comprises a plurality of LED's (see at least column 5, lines 26-40).

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**Remarks**

6. Applicant's argument filed on 8/1/05 has been fully considered. Upon updated search, the new ground of rejection has been set forth as above as the result of the new added claims 1, 12, and 25.


Also, in this office action, examiner has add the rejection of claims 26-27, which has been forgot in the last office action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dalena Tran whose telephone number is 571-272-6968. The examiner can normally be reached on M-F 6:30 AM-4:00 PM), off every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on 571-272-6956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent Examiner  
Dalena Tran



October 14, 2005